

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant :	Anastasios Melis et al)	Atty Dkt. No. 99-29
)	
Serial No. :	09/748,690)	
)	Group Art: 1651
Filing Date:	December 12, 2000)	
)	Examiner: V. Afremova
Title:	Hydrogen Production Using)	
	Hydrogenase-Containing Oxygenic)	
	Photosynthetic Organisms)	

AMENDMENT UNDER 37 CFR §1.116

Commissioner For Patents
U.S. Patent & Trademark Office
P.O. Box 1450
Mail Stop Non-Fee Amendment
Arlington, VA 22313-1450

Sir:

In reply to the Office Action mailed August 8, 2003, which rejected the claims in the above-identified patent application, applicants respectfully request reconsideration based upon the amendments hereinafter set forth.

IN THE CLAIMS:

1. (Currently Amended) A reversible physiological process for temporal separation of oxygen evolution to avoid deactivation of hydrogenase in the presence of oxygen and sustain photosynthetic hydrogen production in cells of an algae microorganism, comprising:

(a) growing a culture of cells of algae microorganism photoheterotrophically in a Tris-acetate-phosphate medium under ~~illuminated~~ white fluorescence illumination conditions to accumulate an endogenous substrate;

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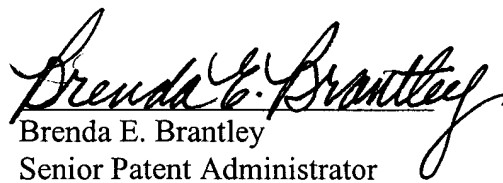
Applicant(s):	Anastasios Melis et al.)
) Art Group: 1651
Serial No.:	09/748,690)
) Examiner: V. Afremova
Filing Date:	December 22, 2000)
) Atty. Dkt. No. NREL 99-29
Title:	Hydrogen Production Using Hydrogenase-)
	Containing Oxygenic Photosynthetic)
	Organisms)

CERTIFICATE OF MAILING UNDER 37 CFR § 1.8

I hereby certify that the following attached items:

- Amendment Under 37 CFR § 1.116 [9 pages]
- Postcard receipt

are being deposited in the United States Postal Service as first class mail, postage pre-paid, in an envelope addressed to: Commissioner for Patents, U.S. Patent & Trademark Office, P.O. Box 1450, Alexandria, Va 22313-1450 on this 31th day of October 2003.


Brenda E. Brantley
Senior Patent Administrator

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